



4-CHANNEL POWER AMPLIFIER

# KAC-8070

## INSTRUCTION MANUAL

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new power amplifier.

### **For your records**

Record the serial number found on the bottom of the unit in the spaces designated on the warranty card and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on this product.

Model KAC-8070 Serial number \_\_\_\_\_

# Care and Maintenance

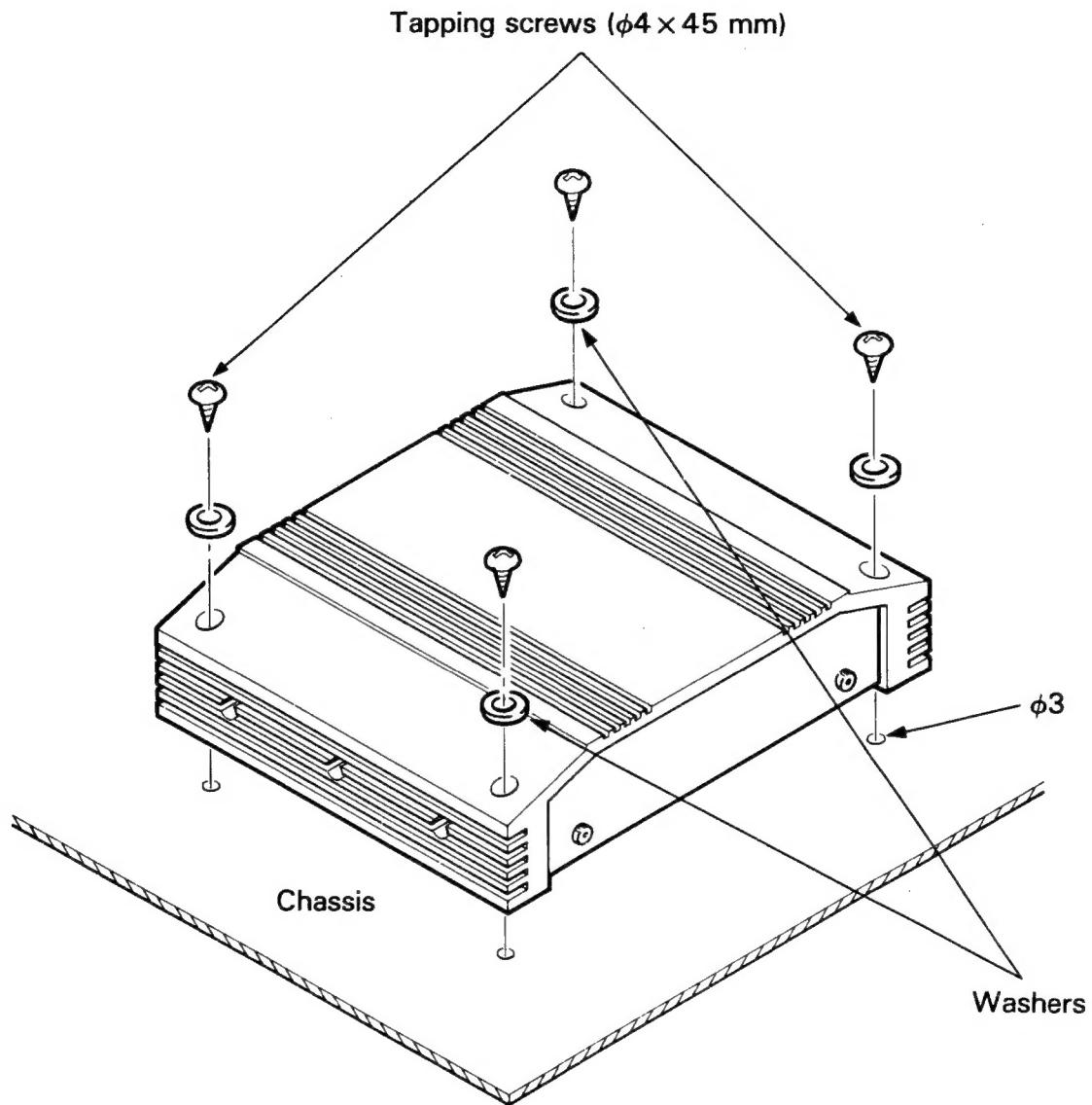
- The power source of this unit is exclusively DC 12 V, negative ground. If you wish to mount the unit on a vehicle with DC 24 V, please consult your appointed KENWOOD dealer.
- Do not place the amplifier in a place where the amplifier may be exposed to direct sunlight, heat or moisture. Be careful that metal objects and water do not enter the set.
- If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

## Cleaning

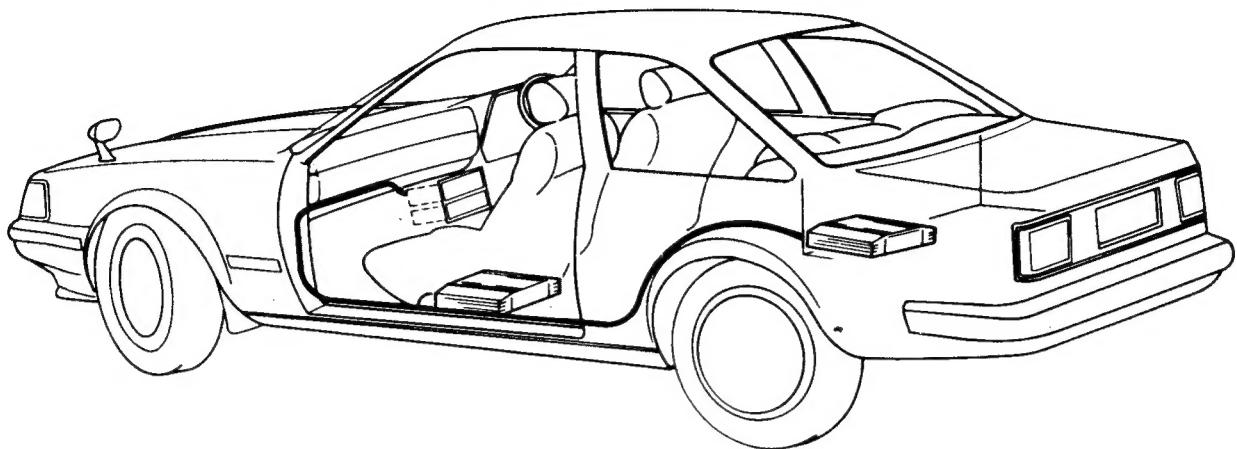
Clean with a dry silicone cloth or a soft cloth. The use of thinner, alcohol or other solvents may damage the surface finish.

# Installation

\* When installing to the car, install the unit securely for safety driving.

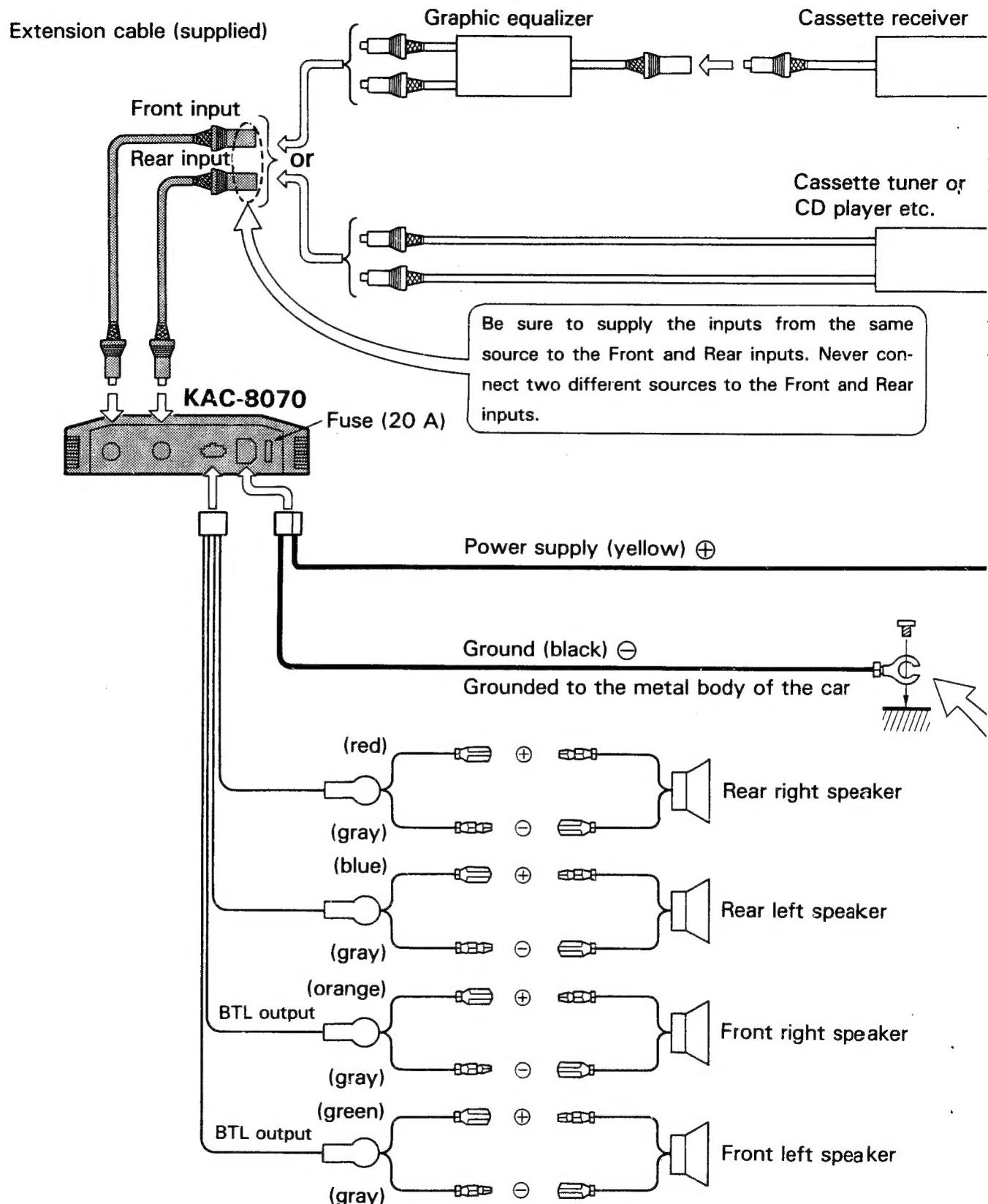


- Use screws supplied as accessories when installing the unit.

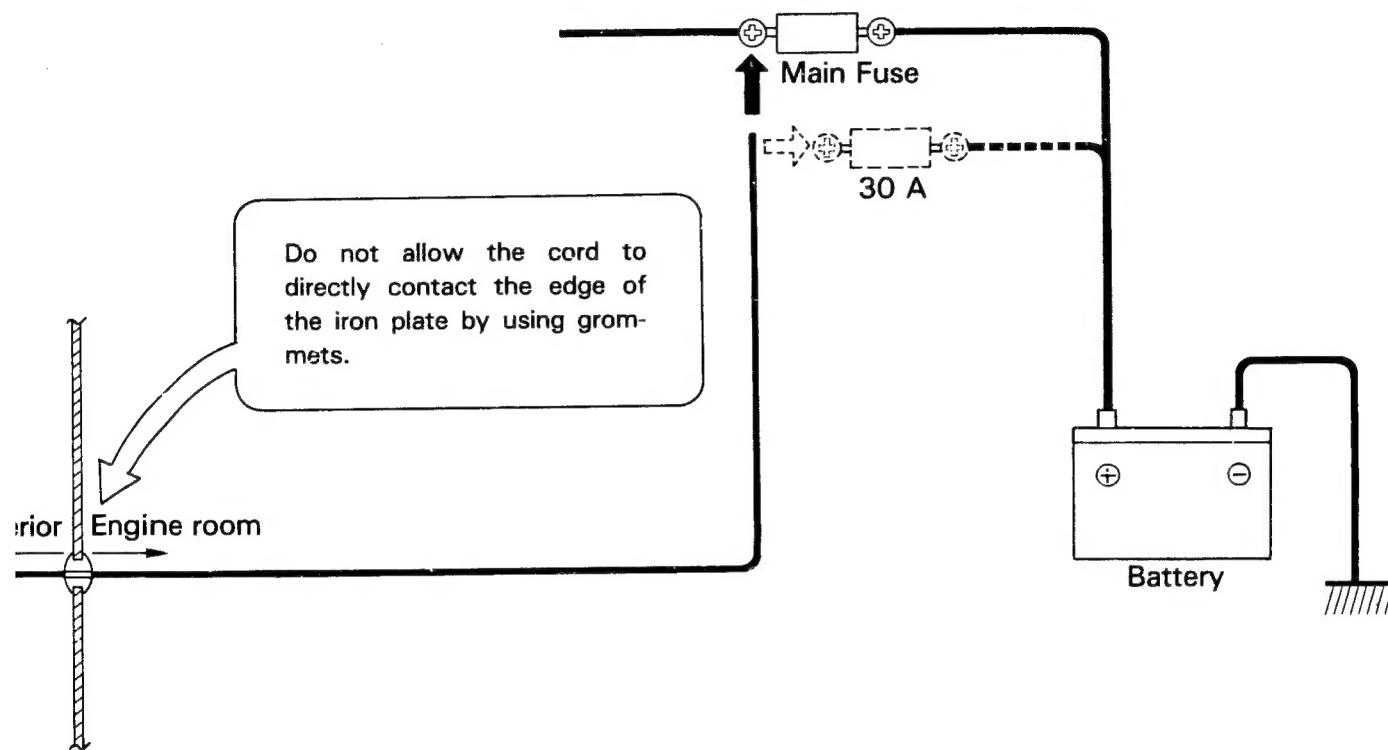


- Since the power amplifier has no parts which require operation, it can be installed at a position away from the driver's seat without any hinderances. But due to its considerable weight, it needs to be installed securely.
- Use the extension cables CA-18F (1 m), CA-28F (2 m), and CA-48F (4 m) (optional) when the connected models are to be installed away from the power amplifier.
- As generally accepted positions for its installation, places such as under the front seat or inside the trunk, etc. can be considered.
- Install the unit in a well-ventilated place and do not place any (heavy) object on it.

# Connection



- Make sure the main fuse of the car is connected between the power source line (yellow) and the battery. If the main fuse cannot be located, connect a new 30 A fuse.

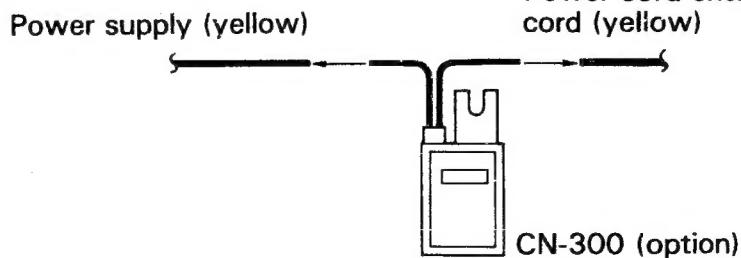


Connect the ground lead to the metal part which is connected to the (–) terminal of the battery.

- If you hear a noise when starting the engine, connect the line noise filter CN-300 (optional) to the power source (yellow) of this unit.

Power supply (yellow)

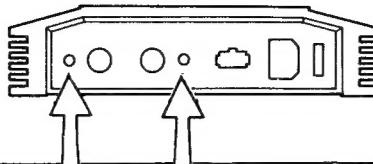
Power cord extension cord (yellow)



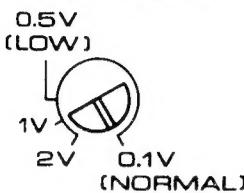
CN-300 (option)

# Connection

**KAC-8070**



## SENSITIVITY



### • Input sensitivity control

The input sensitivity control adjusts the input sensitivity within a range of 0.1 V to 2.0 V continuously, enabling expansion with various systems.

Normally, set the input sensitivity control to 0.1 V (NORMAL) position for KENWOOD cassette receiver or cassette tuner. When the output voltage selector of the cassette receiver or cassette tuner is set to 1 V, set this to 0.5 V (LOW).

## Precautions

Since the electrical consumption of this unit is large, obtaining power source from wirings such as those of built-in cigarette lighters will overload the wiring of the car. Be sure to connect the yellow power lead directly to the battery as shown in the figure before.

- Before starting to install the set, make sure to remove the negative (–) terminal of the battery in order to prevent shortcircuiting.
- When installation and wiring are completed, connect the negative (–) terminal of the battery after confirming that there are no errors.
- When a fuse is blown out, check for any shortcircuiting of cords, and then replace it with a fuse having the specified capacity.
- The maximum rear output power of this unit is 70 W + 70 W. Therefore, the power handling capacity of the speakers connected to this unit should be 70 W or more. If a speaker with a smaller handling capacity is connected and driven at a high level, the speaker unit may be damaged.

## CAUTION (Front output only)

As the unit uses BTL output, always connect the gray speaker wires to the  $\ominus$  terminals of the speaker systems. Never let the gray speaker wires touch and never connect them to the chassis (ground). Do not let the speaker terminals come into contact with the chassis (ground).

# Specifications

Specifications subject to change without notice

## Audio Section

Maximum Power Output (4 ohms, 1 kHz)	
Rear .....	70 W + 70 W
Front.....	35 W + 35 W
Power Output (4 ohms, 1 kHz 10% THD)	
Rear .....	45 W + 45 W
Front.....	25 W + 25 W
(4 ohms, 20 Hz ~ 30 kHz, 1% THD)	
Rear .....	37 W + 37 W
Front.....	20 W + 20 W
Frequency Response (-3 dB)	
Rear .....	2 Hz ~ 100 kHz
Front .....	5 Hz ~ 50 kHz
Total Harmonic Distortion (10 W, 1 kHz, 4 ohms)	0.007%
Signal to Noise Ratio (IEC-A)	100 dB
Sensitivity (rated output)	
Max. ....	0.1 V
Min. ....	2.0 V
Input Impedance .....	10 kΩ
Damping Factor (1 kHz)	more than 100

## General

Operating voltage.....	14.4 V (11 ~ 16 V)
Current Consumption (Max.) .....	16 A
Dimensions (W x H x D) .....	240 x 57 x 170 mm (9-7/16") x (2-1/4") x (6-3/4")
Weight .....	2.5 kg 5.5 lb

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